TITLE OF THE INVENTION

CAPACITOR

CROSS REFERENCE TO RELATED APPLICATIONS

Not applicable.

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

Not applicable.

CROSS-REFERENCE TO RELATED APPLICATIONS

Not applicable.

BACKGROUND OF THE INVENTION

1. FIELD OF THE INVENTION

[0001] The present invention relates to a capacitor. More particularly, the present invention relates to a capacitor comprising a ceramic dielectric and at least two electrodes, said dielectric being predominantly composed of a dielectric ceramic composition whose main component comprises alumina and which further comprises barium titanium oxide, magnesium oxide, silicon oxide, zirconium oxide and hafnium oxide.

[0002] As is known a capacitor is an electric circuit element used to store charge temporarily, consisting in general of two metallic plates separated and insulated from each other by a dielectric. Thus a capacitor is most simply defined as two conductors separated by a dielectric.

[0003] More specifically, a capacitor is a passive electronic component that stores energy in the form of an electrostatic filed. In its simplest form, a

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